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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,441	01/06/2004	Bret K. Street	M4065.1005/P1005	2570	
24998 7590 01/22/2007 DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW			EXAMINER		
			WOJCIECHOWICZ, EDWARD JOSEPH		
Washington, DC 20006-5403			ART UNIT	PAPER NUMBER	
			2815		
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		01/22/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
•	10/751,441	STREET ET AL.
Office Action Summary	Examiner	Art Unit .
	Edward Wojciechowicz	2815
The MAILING DATE of this communication		
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION IN THE PROPERTY OF	ATION. ly be timely filed 1S from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 12	2 20 06	
	his action is non-final.	
3) Since this application is in condition for allow	•	re prosecution as to the marite is
closed in accordance with the practice unde	·	•
	Ex parto Quayro, 1000 C.B.	11, 400 0.0. 210.
Disposition of Claims		
4)⊠ Claim(s) <u>18-22 and 63-70</u> is/are pending in	the application.	·
4a) Of the above claim(s) is/are withd	Irawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>18-22 and 63-70</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exam	iner	
10) The drawing(s) filed on is/are: a) a		the Evaminer
Applicant may not request that any objection to the	•	
Replacement drawing sheet(s) including the corr		• • •
11) The oath or declaration is objected to by the	· · ·	-
•	Examiner. Note the attached t	5/102 / Olioff of 10/11/1 / O-102.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C. § 1	19(a)-(d) or (f).
a) ☐ All b) ⊡ Some * c) ☐ None of:		
1. Certified copies of the priority docume	ents have been received.	
Certified copies of the priority docume	ents have been received in App	olication No
Copies of the certified copies of the p	riority documents have been re	eceived in this National Stage
application from the International Bure	eau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a I	ist of the certified copies not re	ceived.
•		
Attachment(s)		•
1) X Notice of References Cited (PTO-892)	4) Interview Sur	nmary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/l	Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)	ormal Patent Application
. apor rio(s/riviali Date		

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DETAILED ACTION

Allowable Subject Matter

The indicated allowability of claims 18-22 and 63-70 is withdrawn in view of the newly discovered reference(s) to Chen-Tung et al (7,067,358). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-22 and 63-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glenn, of record, in view of Chen-Tung et al. The explanation of the relevance of the Glenn reference is hereby incorporated by reference from the preceding actions. As taught by Glenn, it is already known in the prior art to use different structures in an imaging device to restrict the unwanted flow of adhesive which is used to seal a die with a transparent element. While Glenn teaches the use of trenches and other geometries formed in the transparent element to restrict the flow of the adhesive, the Chen-Tung reference teaches that it is also possible to form the restrictive trenches in the die itself, as claimed.

See, for example, the configuration shown by FIG. 3A of Chen-Tung; where trenches (50) are formed in the die (10) for the explicit purpose of restricting flow of the encapsulant (40). In addition, as shown in FIG. 3B of Chen-Tung, these trenches may also extend across the die.

While Chen-Tung does not explicitly describe a transparent element covering the die, this reference clearly envisions using this structure in imaging devices (sensors and CCDs) as evidenced by the discussion at col. 6, I. 17, and these devices would routinely have transparent elements attached to the active die, as claimed.

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. Taken together, Chen-Tung and Glenn teach all of the claimed features of the invention. Since Chen-Tung and Glenn are both concerned with restricting the unwanted flow of an adhesive encapsulant one skilled in the art would be motivated to combine their teachings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew